redi-letter

TRIP

TO R. D. Bell; Plant Metallurgist

Copy; P. Tandler ✓

FROM

CERRO COPPER PRODUCTS
Division of CERRO CORPORATION
P.O. BOX 681
EAST ST. LOUIS, ILLINOIS 62202

SUBJECT Water Sample - Dead Creek DATE 5/15/75

MESSAGE L.W. Eastep - Ill. EPA - Public Water Supply - Water Pollution Control - took grab samples and will check for: Copper, Iron, Total Dissolved Solids, Suspended solids, cyanide, mercury, C.O.D, and pH. Grab samples were taken on the south side of Queeny Ave.

SIGNED Jason Goldenberg

REPLY

SIGNED DATE / /

SEND PARTS 1 AND 3 WITH CARBON INTACT. - PART 3 WILL BE RETURNED WITH REPLY.

Rediform® 4S 472
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C03520

VILLAGE OF SAUGET

SANITARY DEVELOPMENT AND RESEARCH ASSOCIATION

SAUGET, ILLINOIS 62201

May 16, 1977

R.W. Flint	Monsanto Company
Bill Corlew	Edwin Cooper, Inc.
Paul Tandler	Cerro Copper Co.
J.E. Gorman	AMAX Zinc Company
R.C. Reinhardt	Midwest Rubber Co.

At the May 6, 1977 Board Meeting, approval was granted to hire a part time laboratory assistant, and to purchase additional analytcal equipment for the Treatment Plant.

Hiring a part time lab assistant is necessary to keep pace with the workload demands of the metering manholes, NPDES permit monitoring, and process control needs. The Board authorized this hiring through the end of 1977, with a more complete review of lab manning needs in December, 1977. During this interim period we will account for lab working time by analytical needs to assess our final requirements.

The matter of additional analytical equipment is much more complicated. As I indicated to you at the Board meeting, we are faced with the following problems at the treatment plant which are beyond the present capability of our laboratory.

1. Analysis and identification of influent "oil" loading. Heavy slug loading of "oil" results in numerous operational problems at the plant, (pH probe fouling, greasy sludge, increased lime usage) as well as representing a fire and personnel hazard. These oil discharges come from several sources and it is vital to our operation that we be able to identify the source as quickly as possible so that corrective steps may be taken. We do not want to be "policemen", but on the other hand, we must be able to perform an early analysis if we hope to cause an effective corrective action.

2. We have seen a great degree of variability in sludge filtration effectiveness, and have concluded that to a large degree filterability is a function of sludge oil content. This will be a continuing problem, and we must have the capability to identify and quantify the organic content of our sludge feed.

3. Pending regulations will require that we assess the effectiveness of treatment of a number of organic and inorganic pollutants. We have atomic absorption capabilities for measuring heavy metals, but need additional equipment to analyze for organic contam-

inants. Ultimately this service will be available to each of you directly, since the proposed Federal Industrial Pretreatment Standards will require point source treatment of any regulated substances that interfere with or pass through municipally-owned treatment plants.

We have already done a great deal of work to define these analytical instrumentation needs. As promised at the Board Meeting, I will call the Technical Committee together for final approval of the specifications before we proceed to purchase.

All of this brings me to a request. In order to allow for qualtitative analysis of any given sample, it is necessary to have information as to what substances are potentially present. This is essential in our situation, where a given oil or wastewater sample will contain a large number of substances and compounds.

Accordingly, could each of you arrange to furnish the following information concerning your sewer discharge to the treatment plant:

a. Name and structure of any substance likely to be present.

b. Solubility in water.

c. Specific gravity.

d. Approximate average loading.

e. Whether loading is continuous or not.

This information will minimize the daily problems that will be encountered in analysis. Please be assured that all such data will be held in confidence.

This data is a very important part of our program. I would appreciate a response from each of you by July 1, 1977. Thanks.

Very truly yours,

Robert L. Harness
Treasurer

RLH/db

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